





[PubMed](#)
[Nucleotide](#)
[Protein](#)
[Genome](#)
[Structure](#)
[PMC](#)
[Taxonomy](#)
[OMIM](#)
[Books](#)

Search for

[Limits](#)
[Preview/Index](#)
[History](#)
[Clipboard](#)
[Details](#)

Display Show Send to
 Hide: ☐ sequence ☐ all but gene, CDS and mRNA

Range: from to
☐ Reverse complemented strand
 Features:

☐ 1: [X56895](#). Reports *E.faecium* plasmid...[gi:43335]

[Links](#)

[Features](#) [Sequence](#)

LOCUS X56895 1768 bp DNA linear BCT 17-JUN-1991
 DEFINITION *E.faecium* plasmid pIP816 vanA gene for VANA ligase.
 ACCESSION X56895
 VERSION X56895.1 GI:43335
 KEYWORDS D-alanyl-D-alanine ligase; VANA glycopeptide resistance protein; vancomycin resistance.
 SOURCE *Enterococcus faecium*
 ORGANISM *Enterococcus faecium*
 Bacteria; Firmicutes; Lactobacillales; Enterococcaceae; Enterococcus.
 REFERENCE 1 (bases 1 to 1768)
 AUTHORS Dutka-Malen,S., Molinas,C., Arthur,M. and Courvalin,P.
 TITLE The VANA glycopeptide resistance protein is related to D-alanyl-D-alanine ligase cell wall biosynthesis enzymes
 JOURNAL Mol. Gen. Genet. 224 (3), 364-372 (1990)
 PUBMED 2266943
 REFERENCE 2 (bases 1 to 1768)
 AUTHORS Dutka-Malen,S.
 TITLE Direct Submission
 JOURNAL Submitted (25-FEB-1991) S. Dutka-Malen, Institut Pasteur, Unile des Agents Antibacteriens, 28 rue du Dr Roux, Paris Cedex 15, France
 FEATURES Location/Qualifiers
 source 1..1768
 /organism="Enterococcus faecium"
 /mol_type="genomic DNA"
 /strain="BM4147"
 /db_xref="taxon:1352"
 /plasmid="pIP816"
 RBS 360..369
 gene 377..1408
 /gene="vanA"
 CDS 377..1408
 /gene="vanA"
 /experiment="experimental evidence, no additional details recorded"
 /codon_start=1
 /transl_table=11
 /product="VANA ligase"
 /protein_id="CAA40215.1"
 /db_xref="GI:43336"
 /db_xref="GOA:P25051"
 /db_xref="InterPro:IPR000291"
 /db_xref="InterPro:IPR005905"

```
/db_xref="InterPro:IPR011095"  
/db_xref="InterPro:IPR011127"  
/db_xref="InterPro:IPR011761"  
/db_xref="PDB:1E4E"  
/db_xref="UniProtKB/Swiss-Prot:P25051"  
/translation="MNRIKVAILFGGCSEEHVSVKSAIEIAANINKEKEYEPLYIGIT  
KSGVWKMCEKPCA EWENDNCYS AVLSPDKKMHGLLVKKNH EYEINHV DVAFSALHGKS  
GEDGSIQGLFELSGIPFVGCDIQSSAICMDKSLTYIVAKNAGIATPAFWVINKDDR PV  
AATFTYPVFVKPARSGSSFGVKKVNSADELDYAI ESARQYDSKILIEQAVSGCEVGC A  
VLGNSAALVVGEVDQIRLQYGIFRIHQEVEPEKGS ENAVITVPADLSAEERGR IQETA  
KKIYKALGCRGLARVDMFLQDNGRIVLNEVNTLPGFTSYSRYP RMMAAAGIALPELID  
RLIVLALKG"
```

ORIGIN

```
1 gatatcgтта cgtttcatgt gccgctcaat acggatacgc actatattat cagccacgaa  
61 caaatacaga gaatgaagca aggagcattt cttatcaata ctgggcgcgg tccacttgta  
121 gatacctatg agttgggttaa agcattagaa aacgggaaac tgggcgggtgc cgcattggat  
181 gtattggaag gagaggaaga gtttttctac tctgattgca cccaaaaacc aattgataat  
241 caatttttac ttaaacttca aagaatgcct acggtgataa tcacaccgca tacggcctat  
301 tataccgagc aagcgttgcg tgataccggt gaaaaaacca ttaaaaaactg tttggatttt  
361 gaaaggagac aggagcatga atagaataaa agttgcaata ctgtttgggg gttgctcaga  
421 ggagcatgac gtatcggtaa aatctgcaat agagatagcc gctaacatta ataaagaaaa  
481 atacgagccg ttatacattg gaattacgaa atctgggtgta tggaaaatgt gcgaaaaacc  
541 ttgcgcggaa tgggaaaacg acaattgcta ttcagctgta ctctgcgcgg ataaaaaat  
601 gcacggatta cttgttaaaa agaaccatga atatgaaatc aaccatgttg atgtagcatt  
661 ttcagctttg catggcaagt caggtgaaga tggatccata caaggtctgt ttgaattgtc  
721 cggtatccct tttgtacgct gcgatatcca aagctcagca atttgatagg acaaatcggt  
781 gacatacatc gttgcgaaaa atgctgggat agctactccc gccttttggg ttattaataa  
841 agatgatagg ccggtggcag ctacgtttac ctatcctgtt tttgttaagc cggcgggttc  
901 aggtctatcc ttcggttga aaaaagtcaa tagcgcggac gaattggact acgcaattga  
961 atcggcaaga caatatgaca gcaaaatcct aattgacag gctgtttcgg gctgtgaggt  
1021 cgggttgctgc gtattgggaa acagtgcgcg gttagttgtt ggcgaggtgg accaaatcag  
1081 gctgcagtac ggaatctttc gtattcatca ggaagtcgag cgggaaaaag gctctgaaaa  
1141 cgcagttata accgttcccc cagaccttc agcagaggag cgaggacgga tacaggaaac  
1201 ggcaaaaaaa atatataaag cgctcggctg tagaggtcta gcccggtgtg atatgttttt  
1261 acaagataac ggcgcgattg tactgaacga agtcaatact ctgcccgggt tcacgtcata  
1321 cagtcgttat ccccgatga tggccgctgc aggtattgca cttcccgaac tgattgaccg  
1381 cttgatcgta tttagcgttaa aggggtgata agcatggaaa taggatttac ttttttagat  
1441 gaaatagtac acggtgttcg ttgggacgct aaatatgcca cttgggataa tttcaccgga  
1501 aaaccggttg acggttatga agtaaatcgc attgtaggga catacgagtt ggctgaatcg  
1561 cttttgaagg caaaagaact ggctgctacc caagggtacg gattgcttct atgggacggt  
1621 taccgtccta agcgtgctgt aaactgttt atgcaatggg ctgcacagcc ggaaaaatac  
1681 ctgacaaagg aaagttatta tcccaatatt gaccgaactg agatgatttc aaaaggatac  
1741 gtggcttcaa aatcaagcca tagccgcg
```

//

Disclaimer | Write to the Help Desk
NCBI | NLM | NIH

Apr 17 2007 11:10:07